PONY

ICT

October Revision

4th Primary
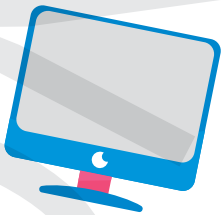
First Term

Lesson 1

» Albert Lin is an archeologist.

» Above ground tools:

❶ Satellites and Drones:
Take photographs of the Earth from above.

❷ Global Positioning System (GPS):
Finds the location of something using satellites.

» Underground tools:

❶ Magnetometer:

- Measures the magnetic field.

- Finds metal underground.

❷ Ground Penetrating Radar (GPR):
Discovers objects buried underground.

Lesson 3

» **Computers are important to** write documents, create presentations, create tables, create videos, browse the internet, and play games.

» **The shape and components of computers differ according to:**
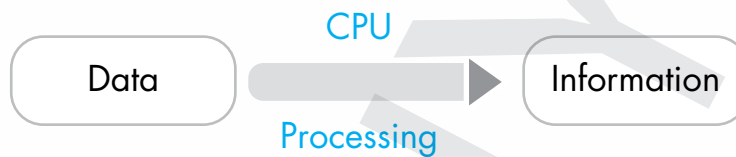
1 Model 2 Manufacturing date

Input Devices		Output Devices	
❶ **Keyboard**	• To type letters and numbers into the computer.	❶ **Screen**	• Shows what you and the computer are doing.
❷ **Mouse**	• To select and move things easily.	❷ **Speaker**	• To hear others. • To output sound.
❸ **Camera**	• To allow others to see you. • To input images or videos into the computer.	❸ **Printer**	• To output texts or images from your computer on paper.
❹ **Microphone**	• To allow others to hear you. • To input sound, audio, and music into the computer.	❹ **Braille terminal**	• It allows blind people to use computers. (How?) • It converts text on the screen into Braille characters.
❺ **Scanner**	• To input texts and images from paper into the computer.	❺ **Speech synthesizer**	• It allows non-verbal people to speak. (How?) • It changes text to speech.

NOTE:

• A touch screen can be used as an input device and an output device.

Lesson 4

» **The CPU:** It is a device that is used to process data and converts it into information.

CPU

| Data | Processing → | Information |

Software	
1. Operating System	**2. Programs (Applications)**
» It is a software system that manages hardware and software. **Examples:** • **Windows:** It is the most famous operating system for computers. • **Android:** It is the most famous operating system for cell phones.	❶ MS Word: It is used to write documents or reports. ❷ MS Excel: It is used to create tables and graphs. ❸ MS PowerPoint: It is used to create presentations. ❹ Google Chrome: It is a browser that allows you browse websites on the internet. ❺ Gaming applications:

Lesson 5

» **Assistive Technology:** It helps people of determination (disabilities) to do daily activities.

Disabilities	Assistive Technology
• Limb difference (amputated leg)	• Prosthetic legs • Paraclimbing tools (for climbers with Limb differences)

• Trouble hearing	• Hearing aids
• Visually impaired people (trouble in vision)	• Screen magnification software • Cell phones with large buttons • Ball that makes noise
• Blind people	• Braille method (convert letters to prominent symbols)
• Speech and language disabilities	• Alternative communication software (change text into speech and vice versa)

» **Stephen Hawking used:**
   ❶ Motorized wheelchair to move.
   ❷ Speech synthesizer to communicate.

Lesson 6

» ICT tools might have a temporary breakdown or failure.
   ❶ An app doesn't open: Restart ➡ check update ➡ uninstall & reinstall app.
   ❷ The mouse/ keyboard doesn't work: Make sure it is connected correctly, then restart ➡ replace the mouse/keyboard with a new one.
   ❸ Your screen freezes: Press ''Alt+Ctrl+Del'' ➡ Restart.
   ❹ You can't find a file: Use the Search box in Start menu.

NOTES:

❶ Restarting a device can often solve many common ICT problems.
❷ If you have tried but can't solve the problem, the last step is to ask your teacher or family for help.